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PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE
(B&W No. 003979-00002)

Applicant: Weaver, et al.
Serial No.: 10/800,587
Filing Date: March 15, 2004
Examiner: Unassigned
Group: 3763
Conf. No.: 1652
Title: MICROSCISSION PROCESS AND PROCEDURE

CERTIFICATE OF EXPRESS MAIL

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

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Date of Deposit: June 16, 2004

I hereby state that the following:

- ☒ Information Disclosure Statement
- ☒ PTO-1449 Form
- ☒ Copies of Art as Cited on Page 1-2 of PTO-1449 Form
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Brigid Laffey

June 16, 2004
Dated

Brigid Laffey
Signature of person mailing above-identified papers



Docket No. 003979/00002

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT:	Weaver, et al.	EXAMINER:	Unassigned
SERIAL NO.:	10/800,587	GROUP:	3763
FILED:	15 March 2004	CONF. NO.:	1652
FOR:	Microscission Process and Procedure		

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

INFORMATION DISCLOSURE STATEMENT

In accordance with the provisions of 37 C.F.R. §1.56 and §1.97, Applicant herewith submits the publications and/or patents shown on the attached Form PTO-1449, for consideration by the Examiner in connection with the examination of the above-identified patent application.

REMARKS

In accordance with the provisions of 37 C.F.R. §1.97, this statement is being filed within three (3) months of the Filing Date or before the mailing date of the First Office Action on the merits

It is respectfully requested that each of the documents shown on the attached form PTO-1449 be made of record in this application. Copies of these documents are in the file of related application Serial No. 09/878,155, filed 07 June 2001 and are thus not being resubmitted herein.

Information Disclosure Statement
U.S.S.N. 10/800,587
Page 2 of 2



Early examination and allowance of the present application are respectfully solicited.

FEE AUTHORIZATION

Any fee associated with this submission should be charged to our Deposit Account - No. 19-0733.

CERTIFICATE OF EXPRESS MAIL FILING

The undersigned hereby certifies that this correspondence is being deposited by Express Mail, Express Mail Receipt No. EV 436814039 in an envelope addressed to:
Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on June 16, 2004.

Respectfully submitted,

A handwritten signature in black ink, appearing to read "Ernest V. Linek", written over a horizontal line.

Ernest V. Linek (Reg. No. 29,822)
Attorney for Applicant
BANNER & WITCOFF, LTD.
28 State Street, 28th Floor
Boston, MA 02109-1775
Tel: (617) 720-9600
Fax: (617) 720-9601
E-mail: ELinek@bannerwitcoff.com

Date: 16 June 2004

PTO/SB/08a (05-03)

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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Sheet	1	of	8
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Complete if Known

Application Number	10/800,587
Filing Date	March 15, 2004
First Named Inventor	James C. Weaver
Art Unit	3763
Examiner Name	Not Yet Assigned
Attorney Docket Number	003979-00002

U.S. PATENT DOCUMENTS

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FOREIGN PATENT DOCUMENTS

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Examiner Signature	/Bhisma Mehta/	Date Considered	06/01/2009
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*EXAMINER. Initial if reference considered, whether or not citation is in conformance with MPPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional). 2 See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: **Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet

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First Named Inventor	James C. Weaver
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Group Art Unit	3763
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Examiner Name	Not Yet Assigned
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Attorney Docket Number	003979-00002
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OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

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Examiner Signature	/Bhisma Mehta/	Date Considered	06/01/2009
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.

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INFORMATION DISCLOSURE
STATEMENT BY APPLICANT

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Sheet	3	of	8
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First Named Inventor	James C. Weaver
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Examiner Name	Not Yet Assigned
Attorney Docket Number	003979-00002

U.S. PATENT DOCUMENTS

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FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION YES NO
	AM	WO 00/03758	27 Jan 00	PCT			
	AM	WO 97/04632	13 Feb 97	PCT			
	AQ	EO 0 417 290	20 Mar 91	EPO			
	AP						
	AQ						

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

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	AS	
	AT	

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INFORMATION DISCLOSURE
STATEMENT BY APPLICANT

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First Named Inventor	James C. Weaver
Art Unit	3763
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Attorney Docket Number	003979-00002

U. S. PATENT DOCUMENTS

EXAM- INER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE IF APPROPRIATE
AA	5,019,034	05/28/1991	Weaver, et al.	604	20	
AB	5,389,069	02/14/1995	Weaver	604	21	
AC	6,085,115	07/04/2000	Weaver, et al.	600	509	
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AF	5,885,211	03/23/1999	Eppstein, et al.	600	309	
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FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION YES NO
AL WO 97/07734	03/06/1997	PCT			

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

AR	Langer, R., "Drug Delivery and Targeting.," Nature, 392:S5-S10 (1998).
AS	Elias, P.M., et al. "Percutaneous Transport in Relation to Stratum Corneum Structure and Lipid Composition," J. Invest. Dermatol., 76(4): 297-301 (1981).
AT	Elias, P.M., and Menon, G.K., "Structural and Lipid Biochemical Correlates of the Epidermal Permeability Barrier," Adv. Lipid Res., 24: 1-26 (1991).
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AV	Ilic, L., et al., "Electrochemical Creation of Microconduits in Full-Thickness Human Skin for Transdermal Drug Delivery by Pressure-Driven Flow," Proc. Internat. Symp. on Controlled Release of Bioact. Materials, Controlled Release Society, 26:178-179 (1999).

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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 Sheet 5 of 8

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Application Number	10/800,587
Filing Date	March 15, 2004
First Named Inventor	James C. Weaver
Art Unit	3763
Examiner Name	Not Yet Assigned
Attorney Docket Number	003979-00002

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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

AW	Ilic, L., et al., "Spatially Constrained Skin Electroporation with Sodium Thiosulfate and Urea Creates Transdermal Microconduits," <i>J. Control. Release</i> , 61:185-202 (1999).
AX	Yamashita, N., et al., "Scanning Electron Microscopic Evaluation of the Skin Surface after Ultrasound Exposure," <i>The Anatomical Record</i> , 247: 455-461 (1997).
AY	Tachibana, K., and Tachibana, S., "Transdermal Delivery of Insulin by Ultrasonic Vibration," <i>J. Pharm. Pharmacol.</i> , 43(4):270-271 (1991).
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AS2	Jacques, S.L., et al., "Controlled Removal of Human Stratum Corneum by a Pulsed Laser," <i>J. Invest. Dermatol.</i> , 88(1):88-93 (1987).
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AX2	Cullander, C., "What Are the Pathways of Iontophoretic Current Flow Through Mammalian Skin?" <i>Adv. Drug Delivery Rev.</i> , 9(2/3):119-135 (1992).
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INFORMATION DISCLOSURE
STATEMENT BY APPLICANT

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Examiner Name	Not Yet Assigned
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| AR3 | Merino, V., et al., "Transdermal Therapy and Diagnosis by Iontophoresis," <i>TIBTech.</i> , 15:288-290 (1997). |
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| AX3 | Prausnitz, M.R., et al., "Methods for in Vivo Tissue Electroporation Using Surface Electrodes," <i>Drug Delivery</i> , 1(2):125-131, (1993). |
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| AR4 | Vanbever, R., et al., "Transdermal Delivery of Fentanyl: Rapid Onset of Analgesia Using Skin Electroporation," <i>J. Controlled Release</i> , 50: 225-235 (1998). |
| AS4 | Chen, T., et al., "Skin Electroporation Causes Molecular Transport Across the Stratum Corneum Through Localized Transport Regions," <i>J. Invest. Dermatol. Symposium Proceedings</i> , 3:159-165 (1998). |
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 7 of 8

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First Named Inventor	James C. Weaver
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Attorney Docket Number	003979-00002

U.S. PATENT DOCUMENTS

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

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| AW4 | Prausnitz, M.R., et al., "Transdermal Delivery of Heparin by Skin Electroporation," <i>Biotechnology</i> , 13: 1205-1209 (1995). |
| AX4 | Heise, H.M., "Non-Invasive Monitoring of Metabolites Using Near Infrared Spectroscopy: State of the Art," <i>Horm. Metab. Res.</i> , 28:527-534 (1996). |
| AY4 | Fischer, U., et al., "Assessment of Subcutaneous Glucose Concentration: Validation of the Wick Technique as a Reference for Implanted Electrochemical Sensors in Normal and Diabetic Dogs," <i>Diabetologia</i> , 30(12):940-945 (1987). |
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| AU5 | Schiffman, et al., "Airway Humidification in Mechanically Ventilated Neonates and Infants: A Comparative Study of a Heat and Moisture Exchanger vs. a Heated Humidifier Using a New Fast-response Capacitive Humidity Sensor," <i>Crit. Care Med.</i> 25(10):1755-1760 (1997). |
| AV5 | Ohnishi, et al., "Human Perspiration Measurement," <i>Physiol. Meas.</i> 19(4): 449-461 (1998). |
| AW5 | Pliquett, U.F., et al. "Imaging of Fluorescent Molecules and Small Ion Transport Through Human Stratum Corneum During High-Voltage Pulsing: Localized Transport Regions Are Involved," <i>J. Biophys. Chem.</i> , 58:185-204, (1996). |
| AX5 | Prausnitz, M.R., et al., "Imaging Regions of Transport Across Human Stratum Corneum During High Voltage and Low Voltage Exposures," <i>J. Pharm. Sci.</i> , 85(12):1363-1370, (1996). |
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| AR6 | Hikima, T., et al., "Effect of Ultrasound Application on Skin Metabolism of Prednisolone 21-Acetate," <i>Pharm. Res.</i> , 15(11):1680-1683 (1998). |
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| AT6 | Henry, S., et al., "Microfabricated Microneedles: A Novel Approach to Transdermal Drug Delivery," <i>J. Pharm. Sci.</i> 87(8):922-925 (1998). |
| AU6 | Miyajima, et al., "Effect of Polymer/Basic Drug Interaction on the Two-Stage Diffusion-Controlled Release from a Poly(L-lactic Acid) Matrix," <i>J. Controlled Rel.</i> 61(3):295-304 (1999). |
| AV6 | Simon, L.D., et al., "Mechanisms Controlling Diffusion and Release of Model Proteins Through and From Partially Esterified Hyaluronic Acid Membranes," <i>J. Controlled Rel.</i> 61(3):267-279 (1999). |
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| AZ6 | Longridge, D.J., et al., Effects of Payload Per Unit Area on Dermal Powderject® Delivery of Testosterone to Conscious Rabbits," <i>Proceed. Int'l. Symp. Control. Rel. Bioact. Mater.</i> , 25:595-596 (1998). |
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| AS7 | Sage, B.H., Jr., "Iontophoresis" CRC Press, Inc., Chapter 15.1 Percutaneous Penetration Enhancers 351-368 (1995). |
| AT7 | Weaver, J.C., and Langer, R., "Electrochemical Creation of Large Aqueous Pathways: an Approach to Transdermal Drug Delivery," <i>Progress in Dermatology</i> , 33:1-10 (1999). November 26, 2001 |
| AU7 | McAllister, D.V., et al., "Microfabricated Microneedles: A Novel Approach to Transdermal Drug Delivery," <i>Proceed. Int'l. Symp. Control. Rel. Bioact. Mater.</i> , 25:30-31 (1998). |
| AV7 | Scott, E.R., et al., "Direct Imaging of Ionic Pathways in Stratum Corneum Using Scanning Electrochemical Microscopy," <i>Solid State Ionics</i> , 53-56 (Part 1):176-183 (1992). |
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2001EXAMINER

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